

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-016256**Date Inspected:** 11-Aug-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Yang Bai Qian.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder(OBG)**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Amit K. Juvekar, was present during the times noted above for observations relative to the work being performed.

Subassembly, Bay 01, Traveler Rails.

QA received ZPMC inspection notification sheet 06375 to perform dimensional inspection of traveler rails identified as 20TR2-024. The inspection was performed along with Caltrans (CT) QA Mr. Amit Juvekar, Dimensional inspections performed on each of these traveler rails include, but is not limited to, overall length, Thickness at Typical Section, Flange Width, Depth Typical Section, flange Curl at Typical Section, Web to Flange Offset The results of the inspection were recorded on Caltrans (CT) QA form "OBG DCP Hand Measurements Survey: Traveler Rails and submitted to CT QA lead for review.

Subassembly, Bay 02, Floor Beam.

During Random Visual in process Inspection, this QA inspector observed ZPMC personnel Heat Straightening Floor Beam FB3234A. ZPMC QC Li Ming Yang showed Heat Straightening Report HSR1 (B) # 8976. The attached photographs provide additional detail.

Subassembly, Bay 03, Longitudinal Bulkhead Subassembly.

FCAW welding of weld joint SA3018-001-47, 48; located on assembly, Bay 03. Welder is identified as 206586; ZPMC Quality Control Inspector (QC) is identified as Chen Xi. The welding variables recorded by Quality Control Inspector (QC) appeared to comply with the Applicable WPS: WPS-B-T-2132-3.

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

This QA Inspector carried out NDE on following
Subassembly, Bay 04, Traveler rails.

This QA inspector performs Random Visual Testing (VT) & random Magnetic Particle Testing (MT) of approximately 15% area previously tested and accepted by ZPMC Quality Control personnel (Notification # 06379). This QA Inspector generated an MT report (TL-6028) for this date. The members are identified as 20TR2-019, 020, 022, 023, 024, 026, 027, 028.

Subassembly, Bay 04, Deck Panel 13BW-DP3137-001.

QA inspector performed conventional Ultrasonic Testing (UT) Inspection of approximately 10% for Lack of Penetration (LOP) on deck panel (U-rib to deck plate) Partial Penetration weld areas previously tested and accepted by ZPMC Quality Control personnel. This QA inspector generated UT report for this date. The members are identified as Deck Panel. The weld designations reviewed are, DP3137-001-001 to 008, 145 to 152.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

No relevant conversations.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, 1500.042.2372, who represents the Office of Structural Materials for your project.

Inspected By:	Juvekar,Amit	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
